

CLAIMS

What is claimed is:

1. A manufacturing method of a liquid crystal display having a liquid crystal panel with a liquid crystal sealed in liquid crystal sealing-in areas disposed between a pair of substrates comprising the steps of:
 - a liquid crystal injecting step of injecting a liquid crystal from a liquid crystal injection port into said liquid crystal sealing-in areas;
 - an end-sealing material applying step of applying an uncured end-sealing material to said liquid crystal injection port after injecting the liquid crystal;
 - an end-sealing material removing step of removing at least a part of said end-sealing material bleeding outside a contour of said liquid crystal panel; and
 - an end-sealing material curing step of curing said end-sealing material after said end-sealing material removing step.
2. A manufacturing method of a liquid crystal display according to Claim 1, wherein said end-sealing material removing step includes a step of absorbing said end-sealing material by bringing an absorbent material into contact with said end-sealing material, and absorbing said end-sealing material by said absorbent material.
3. A manufacturing method of a liquid crystal display according to Claim 1, wherein said end-sealing material removing step includes a step of sucking said end-sealing material by bringing a suction jig into contact with said end-sealing material, and sucking said end-sealing material into said suction jig.
4. A manufacturing method of a liquid crystal display according to Claim 3, wherein said end-sealing material removing step further includes a step of troweling off said end-sealing material along an end face of said liquid crystal panel where said liquid

crystal injection port is arranged by a troweling jig after sucking said end-sealing material by said suction jig.

5. A manufacturing method of a liquid crystal display according to Claim 1, further comprising:

a step of increasing a pressure inside said liquid crystal sealing-in areas of said liquid crystal panel before said liquid crystal injecting step; and

a step of evacuating said liquid crystal sealing-in areas after said end-sealing material applying step and before said end-sealing material removing step.

6. A manufacturing method of a liquid crystal display having a liquid crystal panel with a liquid crystal sealed in liquid crystal sealing-in areas disposed between a pair of substrates comprising the steps of:

a liquid crystal injecting step of injecting a liquid crystal from a liquid crystal injection port into said liquid crystal sealing-in areas;

an end-sealing material applying step of applying an uncured end-sealing material to said liquid crystal injection port after injecting the liquid crystal;

a wiping step of wiping at least a part of said end-sealing material bleeding outside the contour of said liquid crystal panel by a wiping jig ; and

an end-sealing material curing step of curing said end-sealing material after said wiping step.

7. A manufacturing method of a liquid crystal display according to Claim 6, further comprising:

a step of increasing a pressure inside said liquid crystal sealing-in areas of said liquid crystal panel before said liquid crystal injecting step; and

a step of evacuating said liquid crystal sealing-in areas after said end-sealing material applying step and before said end-sealing material wiping step.

8. A manufacturing method of a liquid crystal display having a liquid crystal panel with a liquid crystal sealed in liquid crystal sealing-in areas disposed between a pair of substrates comprising the steps of:

a liquid crystal injecting step of injecting the liquid crystal from a liquid crystal injection port into said liquid crystal sealing-in areas;

an end-sealing material applying step of applying an uncured end-sealing material to said liquid crystal injection port after injecting the liquid crystal;

a troweling step of troweling off the end-sealing material bleeding outside a contour of said liquid crystal panel along an end face of said liquid crystal panel where said liquid crystal injection port is arranged by a troweling jig; and

an end-sealing material curing step of curing said end-sealing material after said troweling step.

9. A manufacturing method of a liquid crystal display according to Claim 8, further comprising:

a step of increasing a pressure inside said liquid crystal sealing-in areas of said liquid crystal panel before said liquid crystal injecting step; and

a step of evacuating said liquid crystal sealing-in areas after said end-sealing material applying step and before said end-sealing material troweling step.

10. A manufacturing method of a liquid crystal display having a liquid crystal panel with a liquid crystal sealed in liquid crystal sealing-in areas disposed between a pair of substrates,

wherein said liquid crystal panel is manufactured by injecting the liquid crystal from a liquid crystal injection port into said liquid crystal sealing-in areas, applying an uncured end-sealing material to said liquid crystal injection port after injecting the liquid crystal, sucking at least a part of said end-sealing material bleeding outside a contour of

said liquid crystal panel, and curing said end-sealing material.

11. A manufacturing method of a liquid crystal display having a liquid crystal panel with a liquid crystal sealed in liquid crystal sealing-in areas disposed between a pair of substrates,

wherein said liquid crystal panel is manufactured by injecting the liquid crystal from a liquid crystal injection port into said liquid crystal sealing-in areas, applying an uncured end-sealing material to said liquid crystal injection port after injecting the liquid crystal, wiping at least a part of said end-sealing material bleeding outside a contour of said liquid crystal panel by a wiping jig, and curing said end-sealing material .

12. A manufacturing method of a liquid crystal display having a liquid crystal panel with a liquid crystal sealed in liquid crystal sealing-in areas disposed between a pair of substrates,

wherein said liquid crystal panel is manufactured by injecting the liquid crystal from a liquid crystal injection port into said liquid crystal sealing-in areas, applying an uncured end-sealing material to said liquid crystal injection port after injecting the liquid crystal, troweling off said end-sealing material bleeding outside a contour of said liquid crystal panel along an end face of said liquid crystal panel where said liquid crystal injection port is arranged by a troweling jig, and curing said end-sealing material.

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